



Apple iServices

WebObjects Deployment

Key Features

- Explains the functional components of the WebObjects 4.5 runtime architecture
- Provides the fastest, most cost-effective way to learn deployment of WebObjects applications
- Explores techniques for installing, troubleshooting, and monitoring WebObjects applications on various server operating systems
- Reinforces administrative techniques with practical exercises and hands-on tutorials
- Taught by experienced software engineers with strong technical backgrounds and dynamic presentation skills
- Consistently receives great reviews and high marks for content and delivery
- Offered at Apple iServices training centers or onsite at client locations worldwide

Other WebObjects Courses

To master WebObjects technology in the shortest time possible, these additional courses are highly recommended:

Programming WebObjects I

Comprehensive, in-depth introduction to web application development using WebObjects. Intended for application developers and system architects.

Programming WebObjects II

Advanced WebObjects topics, with particular emphasis on Enterprise Objects Framework and database connectivity. Intended for application developers and system architects.

WebObjects Deployment teaches system administrators and WebObjects developers how to successfully deploy web applications on the WebObjects 4.5 application server. This three-day course covers topics such as server configuration, startup and shutdown, load balancing, monitoring, performance profiling, statistics, failover, and installation on various operating systems. With the skills and hands-on experience acquired in this course, system administrators will have the knowledge to effectively plan, troubleshoot, and manage the deployment of web applications.

Objective

Learn to install, configure, monitor, troubleshoot, and manage the WebObjects application server on a variety of platforms, including Solaris, Windows NT, and Mac OS X Server.

Who should attend?

System administrators and WebObjects developers who have experience or familiarity with the following topics:

- Network administration on UNIX or NT platforms (choose your platform)
- File sharing, email, and HTTP services
- Scripts, environment variables, and system services
- Makefiles, shared libraries, DLLs, include files, and compilers
- TCP/IP and firewalls
- Basics of relational databases

Description

WebObjects Deployment combines lectures, demonstrations, and hands-on student exercises performed on Windows NT, Solaris, or Mac OS X Server systems.

The course covers

- Choosing deployment hardware
- Installing WebObjects
- Building and installing a WebObjects application
- Configuring the WebObjects adaptor on Apache, IIS, or Netscape web servers
- Using database client libraries
- Maximizing performance and minimizing downtime
- Applying security to web applications

On completion, students receive all course materials, including an indexed student manual, CD with lab exercises and solutions, and certificate of class attendance.



Course Syllabus

Lecture and Demo

Lab

Installing WebObjects

Avoiding common pitfalls when installing and uninstalling WebObjects; starting required services and setting environment variables.

Install the web server on your primary operating systems; install WebObjects.

The Web Application

Building, installing, and starting a WebObjects application; troubleshooting build problems; using defaults and command-line arguments; choosing between multiple instances versus multiple threads.

Build, install, and start a WebObjects application. Direct-connect to it.

The Adaptor

Installing and configuring the API-specific WebObjects adaptors on Netscape, IIS, and Apache web servers.

Install and configure the adaptor on your primary operating system (Solaris, Window NT, or Mac OS X Server).

The Monitor Utility and wotaskd

Understanding the role of Monitor and wotaskd in web application deployment; scheduling instances for cycling; starting and using wotaskd and Monitor.

Use Monitor to configure several instances of a WebObjects application.

Connecting to Databases

Installing and using database client libraries; using Oracle, ODBC, Sybase, and Informix databases.

Install client libraries; build and install a WebObjects framework that includes images and an Enterprise Objects Model; build and install a WebObjects application that uses the framework and connects to an Oracle database.

Measuring Performance

Load-testing your application using Playback Manager; measuring the response times and memory footprint of your application while under load; improving the performance of any application.

Place an application under load and measure its response time and memory footprint.

Hardware Performance

Finding the performance bottleneck in your hardware configuration; measuring RAM, processor, and disk drive use on Solaris, Windows NT, and Mac OS X Server.

Measure swapping, processor use, and disk drive congestion.

“These are some of the best training courses I have ever been to. The instructors are very hands-on and know the product inside and out.”

—Matthew Martin
Senior Internet Engineer
SeattleTimes.com

“An intensive, impressive week of training that will be invaluable when I return to the office.”

—from Course Evaluation



Lecture and Demo

Lab

Bandwidth Performance

Finding the performance bottleneck in your network configuration; measuring bandwidth requirements between the user and the web server, the web server and the application server, the application server and the database server; using web server logs and packet sniffing.

Use the logs to estimate the bandwidth needed between the user and the web server, and between the web server and the application server; use a packet sniffer to estimate the bandwidth needed between the application server and the database server.

Database Performance

Browsing the SQL sent to the database server; finding the optimizer's plan for that SQL; optimizing fetching from the database.

Browse the SQL; use Oracle's EXPLAIN PLAN to look at the optimizer's plan; add an index to a table; check the hit ratio for the database server.

To Register

To attend WebObjects Deployment at an Apple iServices training center, please visit www.apple.com/iservices/technicaltraining for current schedules, locations, and registration information. To schedule an onsite course at your location, please call 800-848-6398 or email iservices@apple.com.

For More Information

For more information about WebObjects Deployment or other Apple iServices training, please visit www.apple.com/iservices/technicaltraining, call 800-848-6398, or email iservices@apple.com. For additional information about training, consulting, integration, or support services from Apple iServices, visit www.apple.com/iservices.